ELSEVIER

Physics Reports 290 (1997) 358–364

PHYSICS REPORTS

Author index to volumes 281–290

Alam, J.-e., S. Raha and B. Sinha, Electromagnetic probes of quark gluon plasma (Physics Reports 273 (1996) 243–362) 281 (1997) 401
Altshuler, B.L. and L.S. Levitov, Weak chaos in a quantum Kepler problem 288 (1997) 487
Anselmino, M., A. Efremov and E. Leader, The theory and phenomenology of polarized deep inelastic scattering (Physics Reports 261 (1995) 1–124) 281 (1997) 399
Artun, M., *see* S.C. Cowley 283 (1997) 185
Artuso, R., Anomalous diffusion in classical dynamical systems 290 (1997) 37
Avishai, Y., *see* S.A. Gredeskul 288 (1997) 223
Azbel', M.Ya., *see* S.A. Gredeskul 288 (1997) 233
Azbel', M.Ya., Phenomenological theory of mortality 288 (1997) 545

Baker, F.T., L. Bimbot, C. Djalali, C. Glashausser, H. Lenske, W.G. Love, M. Morlet, E. Tomasi-Gustafsson, J.V. de Wiele, J. Wambach and A. Willis, The nuclear spin response to intermediate energy protons and deuterons at low momentum transfer 289 (1997) 235
Barber, B.P., R.A. Hiller, R. Löfstedt, S.J. Putterman and K.R. Weninger, Defining the unknowns of sonoluminescence 281 (1997) 65
Barger, V., M.S. Berger, J.F. Gunion and T. Han, Higgs boson physics in the *s*-channel at $\mu^+\mu^-$ colliders 286 (1997) 1
Battogtokh, D., M. Hildebrand, K. Krischer and A.S. Mikhailov, Nucleation kinetics and global coupling in reaction–diffusion systems 288 (1997) 435
Batty, C.J., E. Friedman and A. Gal, Strong interaction physics from hadronic atoms 287 (1997) 385
Beer, M.A., *see* M. Ottaviani 283 (1997) 121
Bellini, G., I.I. Bigi and P.J. Dornan, Lifetimes of charm and beauty hadrons 289 (1997) 1
Berger, M.S., *see* V. Barger 286 (1997) 1
Berkooz, G., *see* P.J. Holmes 287 (1997) 337
Bhandari, R., Polarization of light and topological phases 281 (1997) 1
Bigi, I.I., *see* G. Bellini 289 (1997) 1
Bimbot, L., *see* F.T. Baker 289 (1997) 235
Bjørnholm, S., *see* U. Näher 285 (1997) 245
Brandan, M.E. and G.R. Satchler, The interaction between light heavy-ions and what it tells us 285 (1997) 143
Bunimovich, L.A. and S. Venkatagiri, On one mechanism of transition to chaos in lattice dynamical systems 290 (1997) 81
Burin, A.L., *see* I.Ya. Polischuk 288 (1997) 205

Elsevier Science B.V.

ELSEVIER

Physics Reports 290 (1997) 358–364

PHYSICS REPORTS

Author index to volumes 281–290

Alam, J.-e., S. Raha and B. Sinha, Electromagnetic probes of quark gluon plasma (Physics Reports 273 (1996) 243–362) 281 (1997) 401
Altshuler, B.L. and L.S. Levitov, Weak chaos in a quantum Kepler problem 288 (1997) 487
Anselmino, M., A. Efremov and E. Leader, The theory and phenomenology of polarized deep inelastic scattering (Physics Reports 261 (1995) 1–124) 281 (1997) 399
Artun, M., *see* S.C. Cowley 283 (1997) 185
Artuso, R., Anomalous diffusion in classical dynamical systems 290 (1997) 37
Avishai, Y., *see* S.A. Gredeskul 288 (1997) 223
Azbel', M.Ya., *see* S.A. Gredeskul 288 (1997) 233
Azbel', M.Ya., Phenomenological theory of mortality 288 (1997) 545

Baker, F.T., L. Bimbot, C. Djalali, C. Glashausser, H. Lenske, W.G. Love, M. Morlet, E. Tomasi-Gustafsson, J.V. de Wiele, J. Wambach and A. Willis, The nuclear spin response to intermediate energy protons and deuterons at low momentum transfer 289 (1997) 235
Barber, B.P., R.A. Hiller, R. Löfstedt, S.J. Putterman and K.R. Weninger, Defining the unknowns of sonoluminescence 281 (1997) 65
Barger, V., M.S. Berger, J.F. Gunion and T. Han, Higgs boson physics in the *s*-channel at $\mu^+\mu^-$ colliders 286 (1997) 1
Battogtokh, D., M. Hildebrand, K. Krischer and A.S. Mikhailov, Nucleation kinetics and global coupling in reaction–diffusion systems 288 (1997) 435
Batty, C.J., E. Friedman and A. Gal, Strong interaction physics from hadronic atoms 287 (1997) 385
Beer, M.A., *see* M. Ottaviani 283 (1997) 121
Bellini, G., I.I. Bigi and P.J. Dornan, Lifetimes of charm and beauty hadrons 289 (1997) 1
Berger, M.S., *see* V. Barger 286 (1997) 1
Berkooz, G., *see* P.J. Holmes 287 (1997) 337
Bhandari, R., Polarization of light and topological phases 281 (1997) 1
Bigi, I.I., *see* G. Bellini 289 (1997) 1
Bimbot, L., *see* F.T. Baker 289 (1997) 235
Bjørnholm, S., *see* U. Näher 285 (1997) 245
Brandan, M.E. and G.R. Satchler, The interaction between light heavy-ions and what it tells us 285 (1997) 143
Bunimovich, L.A. and S. Venkatagiri, On one mechanism of transition to chaos in lattice dynamical systems 290 (1997) 81
Burin, A.L., *see* I.Ya. Polischuk 288 (1997) 205

Elsevier Science B.V.

Casalbuoni, R., A. Deandrea, N. Di Bartolomeo, R. Gatto, F. Feruglio and G. Nardulli, Phenomenology of heavy meson chiral lagrangians 281 (1997) 145
Castel, B., *see* M.S. Fayache 290 (1997) 201
Castellani, V., S. Degl'Innocenti, G. Fiorentini, M. Lissia and B. Ricci, Solar neutrinos: beyond standard solar models 281 (1997) 309
Chen, H., C. Dai, L. Ding, Y. Guo, A. Huo, C. Jing, H. Kuang, H. Liu, J. Ma, C. Shen, H. Sheng, Z. Yao, Z. Yu, Q. Zhu, C. Ching, T. Ho and C. Gao, Search for new massive particles in cosmic rays 282 (1997) 1
Chernov, A.V., Crystals built of biological macromolecules 288 (1997) 61
Ching, C., *see* H. Chen 282 (1997) 1
Chubukov, A.V. and D.K. Morr, Electronic structure of underdoped cuprates 288 (1997) 355
Cowley, S.C., *see* M. Ottaviani 283 (1997) 121
Cowley, S.C. and M. Artun, Explosive instabilities and detonation in magnetohydrodynamics 283 (1997) 185
Cowley, S.C., *see* R. Kulsrud 283 (1997) 213
Cowley, S.C., D.W. Longcope and R.N. Sudan, Current sheets in MHD turbulence 283 (1997) 227
Cvetič, M. and H.H. Soleng, Supergravity domain walls 282 (1997) 159

Dai, C., *see* H. Chen 282 (1997) 1
de Wiele, J.V., *see* F.T. Baker 289 (1997) 235
Deandrea, A., *see* R. Casalbuoni 281 (1997) 145
Degl'Innocenti, S., *see* Castellani 281 (1997) 309
Deisenhofer, J., *see* A.J. Hoff 287 (1997) 1
Di Bartolomeo, N., *see* R. Casalbuoni 281 (1997) 145
Dienes, K.R., String theory and the path to unification: a review of recent developments 287 (1996) 447
Ding, L., *see* H. Chen 282 (1997) 1
Djalali, C., *see* F.T. Baker 289 (1997) 235
Dornan, P.J., *see* G. Bellini 289 (1997) 1
Dykhne, A.M. and I.M. Kaganova, The electrodynamics of polycrystals 288 (1997) 263

Efremov, A., *see* M. Anselmino 281 (1997) 399
Ezawa, K., Nonperturbative solutions for canonical quantum gravity: An overview 286 (1996) 271

Fayache, M.S., L. Zamick and B. Castel, The nuclear tensor interaction 290 (1997) 201
Feruglio, F., *see* R. Casalbuoni 281 (1997) 145
Feudel, U., C. Grebogi and E. Ott, Phase-locking in quasiperiodically forced systems 290 (1997) 11
Fiorentini, G., *see* V. Castellani 281 (1997) 309
Frank-Kamenetskii, M.D., Biophysics of the DNA molecule 288 (1997) 13
Frauendorf, S., *see* U. Näher 285 (1997) 245
Freilikher, V., E. Kanzieper and A.A. Maradudin, Coherent scattering enhancement in systems bounded by rough surfaces 288 (1997) 127
Friedman, E., *see* C.J. Batty 287 (1997) 385
Fujisaka, H., S. Matsushita, T. Yamada and H. Tominaga, On–off intermittency and large deviation statistical mechanics 290 (1997) 27

Gal, A., *see* C.J. Batty 287 (1997) 385
Gao, C., *see* H. Chen 282 (1997) 1

Garcias, F., *see* U. Näher 285 (1997) 245
Gatto, R., *see* R. Casalbuoni 281 (1997) 145
Ghetti, R., *see* L.G. Moretto 287 (1997) 249
Glashausser, C., *see* F.T. Baker 289 (1997) 235
Grebogi, C., *see* U. Feudel 290 (1997) 11
Gredeskul, S.A., M. Zusman, Y. Avishai and M.Ya. Azbel', Spectral properties and localization of an electron in a two-dimensional system with point scatters in a magnetic field 288 (1997) 223
Grimus, S. and M.N. Rebelo, Automorphisms in gauge theories and the definition of CP and P 281 (1997) 239
Gruzinov, A.V., *see* R.N. Sudan 283 (1997) 95
Gruzinov, A.V., *see* R. Kulsrud 283 (1997) 213
Guet, C., *see* U. Näher 285 (1997) 245
Gunion, J.F., *see* V. Barger 286 (1997) 1
Guo, Y., *see* H. Chen 282 (1997) 1

Han, T., *see* V. Barger 286 (1997) 1
Herrera, L. and N.O. Santos, Local anisotropy in self-gravitating systems 286 (1997) 53
Hildebrand, M., *see* D. Battogtokh 288 (1997) 435
Hiller, R.A., *see* B.P. Barber 281 (1997) 65
Ho, T., *see* H. Chen 282 (1997) 1
Hoff, A.J. and J. Deisenhofer, Photophysics of photosynthesis. Structure and spectroscopy of reaction centers of purple bacteria 287 (1997) 1
Hofmann, H., A quantal transport theory for nuclear collective motion: The merits of a locally harmonic approximation 284 (1997) 137
Holmes, P.J., J.L. Lumley, G. Berkooz, J.C. Mattingly and R.W. Wittenberg, Low-dimensional models of coherent structures in turbulence 287 (1997) 337
Horton, S., *see* R.N. Sudan 283 (1997) 95
Horton, W., *see* M. Ottaviani 283 (1997) 121
Horton, W., Chaos and structures in the magnetosphere 283 (1997) 265
Huo, A., *see* H. Chen 282 (1997) 1

Isichenko, M.B. and V.V. Yankov, Turbulent equipartitions in two-dimensional drift convection 283 (1997) 161

Jing, C., *see* H. Chen 282 (1997) 1
Judd, B.R., Lie groups for atomic shells 285 (1997) 1
Jung, C. and T.H. Seligman, Integrability of the *S*-matrix versus integrability of the Hamiltonian 285 (1997) 77
Just, W., On the collective motion in globally coupled chaotic systems 290 (1997) 101

Kaganov, M.I., G.Ya. Lyubarskiy and A.G. Mitina, The theory and history of the anomalous skin effect in normal metals 288 (1997) 291
Kaganova, I.M., *see* A.M. Dykhne 288 (1997) 263
Kailas, S., Heavy-ion induced fission at near-barrier energies 284 (1997) 381
Kamchatnov, A.M., New approach to periodic solutions of integrable equations and nonlinear theory of modulational instability 286 (1997) 199

Kamenshchik, A.Yu., *see* I.M. Khalatnikov 288 (1997) 513
Kanzieper, E., *see* V. Freilikher 288 (1997) 127
Károlyi, G. and T. Tél, Chaotic tracer scattering and fractal basin boundaries in a blinking vortex-sink system 290 (1997) 125
Khalatnikov, I.M. and A.Yu. Kamenshchik, Singularity, initial conditions, quantum tunneling and scalar field in modern cosmology 288 (1997) 513
Khmelnitskii, D.E., *see* B.A. Muzykantskii 288 (1997) 259
Khoruzhenko, B.A. and L.A. Pastur, The localization of surface states: an exactly solvable model 288 (1997) 109
Klafter, J., *see* G. Zumofen 290 (1997) 157
Kovács, Z., Orbit stability in billiards in magnetic field 290 (1997) 49
Kresin, V.Z., S.A. Wolf and Yu.N. Ovchinnikov, Exotic normal and superconducting properties of the high-T_c oxides 288 (1997) 347
Krischer, K., *see* D. Battogtokh 288 (1997) 435
Krommes, J.A., Systematic statistical theories of plasma turbulence and intermittency: current status and future prospects 283 (1997) 5
Krommes, J.A., *see* M. Ottaviani 283 (1997) 121
Kuang, H., *see* H. Chen 282 (1997) 1
Kukharkin, N., *see* R.N. Sudan 283 (1997) 95
Kulsrud, R., S.C. Cowley, A.V. Gruzinov and R.N. Sudan, Dynamos and cosmic magnetic fields 283 (1997) 213
Kuznetsov, L. and G.M. Zaslavsky, Hidden renormalization group for the near-separatrix Hamiltonian dynamics 288 (1997) 457

Leader, E., *see* M. Anselmino 281 (1997) 399
Lenske, H., *see* F.T. Baker 289 (1997) 235
Levitov, L.S., *see* B.L. Altshuler 288 (1997) 487
Lipatov, L.N., Small-x physics in perturbative QCD 286 (1997) 131
Lissia, M., *see* V. Castellani 281 (1997) 309
Liu, C. and Q. Niu, Non-equilibrium effects and self-heating in single-electron Coulomb blockade devices 286 (1997) 349
Liu, H., *see* H. Chen 282 (1997) 1
Löfstedt, R., *see* B.P. Barber 281 (1997) 65
Longcope, D.W., *see* S.C. Cowley 283 (1997) 227
Love, W.G., *see* F.T. Baker 289 (1997) 235
Lumley, J.L., *see* P.J. Holmes 287 (1997) 337
Lyubarskiy, G.Ya., *see* M.I. Kaganov 288 (1997) 291

Ma, J., *see* H. Chen 282 (1997) 1
Maksimov, L.A., *see* I.Ya. Polishchuk 288 (1997) 205
Maradudin, A.A., *see* V. Freilikher 288 (1997) 127
Marqués, F.M., G. Martínez, T. Matulewicz, R.W. Ostendorf and Y. Schutz, Two-photon correlations: from Young experiments to heavy-ion collision dynamics 284 (1997) 91
Martínez, G., *see* F.M. Marqués 284 (1997) 91
Matsushita, S., *see* H. Fujisaka 290 (1997) 27
Mattingly, J.C., *see* P.J. Holmes 287 (1997) 337
Matulewicz, T., *see* F.M. Marqués 284 (1997) 91

Meier, F. and H. Walliser, Quantum corrections to baryon properties in chiral soliton models 289 (1997) 383
Mikhailov, A.S., *see* D. Battogtokh 288 (1997) 435
Mitina, A.G., *see* M.I. Kaganov 288 (1997) 291
Mitus, A.C., *see* A.Z. Patashinski 288 (1997) 409
Moretto, L.G., R. Ghetti, L. Phair, K. Tso and G.J. Wozniak, Reducibility and thermal scaling in nucler multifragmentation 287 (1997) 249
Morlet, M., *see* F.T. Baker 289 (1997) 235
Morr, D.K., *see* A.V. Chubukov 288 (1997) 355
Morriss, G.P., *see* L. Rondoni 290 (1997) 173
Muzykantskii, B.A. and D.E. Khmelnitskii, Long-time trapping of an electron in a one-dimensional disordered chain 288 (1997) 259

Näher, U., S. Bjørnholm, S. Frauendorf, F. Garcias and C. Guet, Fission of metal clusters 285 (1997) 245
Nardulli, G., *see* R. Casalbuoni 281 (1997) 145
Nelson, D.R., *see* U.C. Täuber 289 (1997) 157
Niu, Q., *see* C. Liu 286 (1997) 349
Niyazov, B.A., *see* G.M. Zaslavsky 283 (1997) 73

Odijk, T., Ilya M. Lifshitz. An appreciation 288 (1997) 9
Ostendorf, R.W., *see* F.M. Marqués 284 (1997) 91
Ostojić, B., *see* M. Perić 290 (1997) 283
Ott, E., *see* U. Feudel 290 (1997) 11
Ottaviani, M., M.A. Beer, S.C. Cowley, W. Horton and J.A. Krommes, Unanswered questions in ion-temperature-gradient-driven turbulence 283 (1997) 121
Ovchinnikov, Yu.N., *see* V.Z. Kresin 288 (1997) 347
Overduin, J.M. and P.S. Wesson, Kaluza-Klein gravity 283 (1997) 303

Pastur, L.A., *see* B.A. Khoruzhenko 288 (1997) 109
Patashinski, A.Z., A.C. Mitus and M.A. Ratner, Towards understanding the local structure of liquids 288 (1997) 409
Perić, M., B. Ostojić and J. Radić-Perić, Ab initio investigation of the Renner-Teller effect in tetra-atomic molecules 290 (1997) 283
Peschansky, V.G., Kinetic phenomena in layered conductors placed in a magnetic field 288 (1997) 305
Phair, L., *see* L.G. Moretto 287 (1997) 249
Pokrovsky, V.L., Physical effects in layered superconductors 288 (1997) 325
Polishchuk, I.Ya., L.A. Maksimov and A.L. Burin, Localization and propagation of phonons in crystals with heavy impurities 288 (1997) 205
Putterman, S.J., *see* B.P. Barber 281 (1997) 65

Radić-Perić, J., *see* M. Perić 290 (1997) 283
Radons, G., *see* R. Stoop 290 (1997) 3
Radons, G., The thermodynamic formalism of random walks: Relevance for chaotic diffusion and multifractal measures 290 (1997) 67
Raha, S., *see* J.-e. Alam 281 (1997) 401

Ratner, M.A., *see* A.Z. Patashinski 288 (1997) 409
Rebelo, M.N., *see* W. Grimus 281 (1997) 239
Redmer, R., Physical properties of dense, low-temperature plasmas 282 (1997) 35
Reimann, P., Current reversal in a white noise driven flashing ratchet 290 (1997) 149
Ricci, B., *see* V. Castellani 281 (1997) 309
Rondoni, L. and G.P. Morriss, Thermostatted N-particle systems and orbital measures 290 (1997) 173
Rudakov, L.I., Similarities between some processes in tokamaks and plasma opening switches 283 (1997) 177
Rudakov, L.I. and R.N. Sudan, MHD turbulence in radiating intense Z-pinches 283 (1997) 253

Sadovskii, M.V., Superconductivity and localization 282 (1997) 225
Sagdeev, R.Z., *see* V.D. Shapiro 283 (1997) 49
Santos, N.O., *see* L. Herrera 286 (1997) 53
Satchler, G.R., *see* M.E. Brandan 285 (1997) 143
Schutz, Y., *see* F.M. Marqués 284 (1997) 91
Seligman, T.H., *see* C. Jung 285 (1997) 77
Sfatos, C.D. and E.I. Shakhnovich, Statistical mechanics of random heteropolymers 288 (1997) 77
Shakhnovich, E.I., *see* C.D. Sfatos 288 (1997) 77
Shapiro, V.D. and R.Z. Sagdeev, Nonlinear wave-particle interaction and conditions for the applicability of quasilinear theory 283 (1997) 49
Shen, C., *see* H. Chen 282 (1997) 1
Sheng, H., *see* H. Chen 282 (1997) 1
Shiner, J.S. and S. Sieniutycz, The mechanical and chemical equations of motion of muscle contraction 290 (1997) 183
Shlesinger, M.F., *see* G. Zumofen 290 (1997) 157
Sieniutyzc, S., *see* J.S. Shiner 290 (1997) 183
Sinha, B., *see* J.-e. Alam 281 (1997) 401
Slezov, V.V., Kinetics of first-order phase transitions in a solid solution 288 (1997) 389
Soleng, H.H., *see* M. Cvetič 282 (1997) 159
Starikov, E.B., Chemical physics of solid-state nucleic acids: new intriguing horizons 284 (1997) 1
Stoop, R. and G. Radons, From the routes to chaos to extended systems 290 (1997) 3
Stoop, R., The thermodynamics of parallel iteration 290 (1997) 11
Sudan, R.N., A.V. Gruzinov, W. Horton and N. Kukharkin, Convective turbulence in weakly ionized plasma 283 (1997) 95
Sudan, R.N., *see* R. Kulsrud 283 (1997) 213
Sudan, R.N., *see* S.C. Cowley 283 (1997) 227
Sudan, R.N., *see* L.I. Rudakov 283 (1997) 253

Täuber, U.C. and D.R. Nelson, Superfluid bosons and flux liquids: disorder, thermal fluctuations, and finite-size effects 289 (1997) 157
Tél, T., *see* G. Károlyi 290 (1997) 125
Tomasi-Gustafsson, E., *see* F.T. Baker 289 (1997) 235
Tominaga, H., *see* H. Fuijsaka 290 (1997) 27
Tso, K., *see* L.G. Moretto 287 (1997) 249

Venkatagiri, S., *see* L.A. Bunimovich 290 (1997) 81

Walliser, H., *see* F. Meier 289 (1997) 383
Wambach, J., *see* F.T. Baker 289 (1997) 235
Weninger, K.R., *see* B.P. Barber 281 (1997) 65
Wesson, P.S., *see* J.M. Overduin 283 (1997) 303
Willis, A., *see* F.T. Baker 289 (1997) 235
Wittenberg, R.W., *see* P.J. Holmes 287 (1997) 337
Wolf, S.A., *see* V.Z. Kresin 288 (1997) 347
Wozniak, G.J., *see* L.G. Moretto 287 (1997) 249

Yamada, T., *see* H. Fujisaka 290 (1997) 27
Yankov, V.V., Three rules of nonlinear physics 283 (1997) 147
Yankov, V.V., *see* M.B. Isichenko 283 (1997) 161
Yao, Z., *see* H. Chen 282 (1997) 1
Yu, Z., *see* H. Chen 282 (1997) 1

Zamick, L., *see* M.S. Fayache 290 (1997) 201
Zaslavsky, G.M. and B.A. Niyazov, Fractional kinetics and accelerator modes 283 (1997) 73
Zaslavsky, G.M., *see* L. Kuznetsov 288 (1997) 457
Zhu, Q., *see* H. Chen 282 (1997) 1
Zumofen, G., J. Klafter and M.F. Shlesinger, Mixing in reaction dynamics under enhanced diffusion conditions 290 (1997) 157
Zusman, M., *see* S.A. Gredeskul 288 (1997) 223

ELSEVIER

Physics Reports 290 (1997) 365–370

PHYSICS REPORTS

Subject index to volumes 281–290

General

Polarization of light and topological phases, R. Bhandari 281 (1997) 1
Supergravity domain walls, M. Cvetič and H.H. Soleng 282 (1997) 159
Kaluza–Klein gravity, J.M. Overduin and P.S. Wesson 283 (1997) 303
Lie groups for atomic shells, B.R. Judd 285 (1997) 1
Integrability of the S-matrix versus integrability of the Hamiltonian, C. Jung and T.H. Seligman 285 (1997) 77
Local anisotropy in self-gravitating systems, L. Herrera and N.O. Santos 286 (1997) 53
New approach to periodic solutions of integrable equations and nonlinear theory of modulational instability, A.M. Kamchatnov 286 (1997) 199
Nonperturbative solutions for canonical quantum gravity: An overview, K. Ezawa 286 (1996) 271
Non-equilibrium effects and self-heating in single-electron Coulomb blockade devices, C. Liu and Q. Niu 286 (1997) 349
Low-dimensional models of coherent structures in turbulence, P.J. Holmes, J.L. Lumley, G. Berkooz, J.C. Mattingly and R.W. Wittenberg 287 (1997) 337
Ilya M. Lifshitz. An appreciation, T. Odijk 288 (1997) 9
The localization of surface states: an exactly solvable model, B.A. Khoruzhenko and L.A. Pastur 288 (1997) 109
Coherent scattering enhancement in systems bounded by rough surfaces, V. Freilikher, E. Kanzieper and A.A. Maradudin 288 (1997) 127
Hidden renormalization group for the near-separatrix Hamiltonian dynamics, L. Kuznetsov and G.M. Zaslavsky 288 (1997) 457
Weak chaos in a quantum Kepler problem, B.L. Altshuler and L.S. Levitov 288 (1997) 487
Superfluid bosons and flux liquids: disorder, thermal fluctuations, and finite-size effects, U.C. Täuber and D.R. Nelson 289 (1997) 157
From the routes to chaos to extended systems, R. Stoop and G. Radons 290 (1997) 3
Phase-locking in quasiperiodically forced systems, U. Feudel, C. Grebogi and E. Ott 290 (1997) 11
On–off intermittency and large deviation statistical mechanics, H. Fujisaka, S. Matsushita, T. Yamada and H. Tominaga 290 (1997) 27
Anomalous diffusion in classical dynamical systems, R. Artuso 290 (1997) 37
Orbit stability in billiards in magnetic field, Z. Kovács 290 (1997) 49
The thermodynamic formalism of random walks: Relevance for chaotic diffusion and multifractal measures, G. Radons 290 (1997) 67
On one mechanism of transition to chaos in lattice dynamical systems, L.A. Bunimovich and S. Venkatagiri 290 (1997) 81

Elsevier Science B.V.

On the collective motion in globally coupled chaotic systems, W. Just 290 (1997) 101
The thermodynamics of parallel iteration, R. Stoop 290 (1997) 111
Chaotic tracer scattering and fractal basin boundaries in a blinking vortex-sink system, G. Károlyi and T. Tél 290 (1997) 125
Current reversal in a white noise driven flashing ratchet, P. Reimann 290 (1997) 149
Mixing in reaction dynamics under enhanced diffusion conditions, G. Zumofen, J. Klafter and M.F. Shlesinger 290 (1997) 157
Thermostatted N-particle systems and orbital measures, L. Rondoni and G.P. Morriss 290 (1997) 173
The mechanical and chemical equations of motion of muscle contraction, J.S. Shiner and S. Sieniutycz 290 (1997) 183

The physics of elementary particles and fields

Phenomenology of heavy meson chiral lagrangians, R. Casalbuoni, A. Deandrea, N. Di Bartolomeo, R. Gatto, F. Feruglio and G. Nardulli 281 (1997) 145
Automorphisms in gauge theories and the definition of CP and P., W. Grimus and M.N. Rebelo 281 (1997) 239
Search for new massive particles in cosmic rays, H. Chen, C. Dai, L. Ding, Y. Guo, A. Huo, C. Jing, H. Kuang, H. Liu, J. Ma, C. Shen, H. Sheng, Z. Yao, Z. Yu, Q. Zhu, C. Ching, T. Ho and C. Gao 282 (1997) 1
Supergravity domain walls, M. Cvetič and H.H. Soleng 282 (1997) 159
Higgs boson physics in the s-channel at $\mu^+\mu^-$ colliders, V. Barger, M.S. Berger, J.F. Gunion and T. Han 286 (1997) 1
Small-x physics in perturbative QCD, L.N. Lipatov 286 (1997) 131
String theory and the path to unification: a review of recent developments, K.R. Dienes 287 (1996) 447
Lifetimes of charm and beauty hadrons, G. Bellini, I.I. Bigi and P.J. Dornan 289 (1997) 1
Quantum corrections to baryon properties in chiral soliton models, F. Meier and H. Walliser 289 (1997) 383

Nuclear physics

Solar neutrinos: beyond standard solar models. V. Castellani, S. Degl'Innocenti, G. Fiorentini, M. Lissia and B. Ricci 281 (1997) 309
Two-photon correlations: from Young experiments to heavy-ion collision dynamics, F.M. Marqués, G. Martinez, T. Matulewicz, R.W. Ostendorf and Y. Schutz 284 (1997) 91
A quantal transport theory for nuclear collective motion: The merits of a locally harmonic approximation, H. Hofmann 284 (1997) 137
Heavy-ion induced fission at near-barrier energies, S. Kailas 284 (1997) 381
The interaction between light heavy-ions and what it tells us, M.E. Brandan and G.R. Satchler 285 (1997) 143
Small-x physics in perturbative QCD, L.N. Lipatov 286 (1997) 131
Reducibility and thermal scaling in nuclear multifragmentation, L.G. Moretto, R. Ghetti, L. Phair, K. Tso and G.J. Wozniak 287 (1997) 249
Strong interaction physics from hadronic atoms, C.J. Batty, E. Friedman and A. Gal 287 (1997) 385

The nuclear spin response to intermediate energy protons and deuterons at low momentum transfer, F.T. Baker, L. Bimbot, C. Djalali, C. Glashausser, H. Lenske, W.G. Love, M. Morlet, E. Tomasi-Gustafsson, J.V. de Wiele, J. Wambach and A. Willis 289 (1997) 235
The nuclear tensor interaction, M.S. Fayache, L. Zamick and B. Castel 290 (1997) 201

Atomic and molecular physics

Lie groups for atomic shells, B.R. Judd 285 (1997) 1
Fission of metal clusters, U. Näher, S. Bjørnholm, S. Frauendorf, F. Garcias and C. Guet 285 (1997) 245
Strong interaction physics from hadronic atoms, C.J. Batty, E. Friedman and A. Gal 287 (1997) 385
Ab initio investigation of the Renner–Teller effect in tetra-atomic molecules, M. Perić, B. Ostojić and J. Radić-Perić 290 (1997) 283

Classical areas of phenomenology (including applications)

Polarization of light and topological phases, R. Bhandari 281 (1997) 1
Defining the unknowns of sonoluminescence, B.P. Barber, R.A. Hiller, R. Löfstedt, S.J. Putterman and K.R. Weninger 281 (1997) 65
Systematic statistical theories of plasma turbulence and intermittency: current status and future prospects, J.A. Krommes 283 (1997) 5
Unanswered questions in ion-temperature-gradient-driven turbulence, M. Ottaviani, M.A. Beer, S.C. Cowley, W. Horton and J.A. Krommes 283 (1997) 121
New approach to periodic solutions of integrable equations and nonlinear theory of modulational instability, A.M. Kamchatnov 286 (1997) 199
Low-dimensional models of coherent structures in turbulence, P.J. Holmes, J.L. Lumley, G. Berkooz, J.C. Mattingly and R.W. Wittenberg 287 (1997) 337
Coherent scattering enhancement in systems bounded by rough surfaces, V. Freilikher, E. Kanzieper and A.A. Maradudin 288 (1997) 127
The electrodynamics of polycrystals, A.M. Dykhne and I.M. Kaganova 288 (1997) 263
Nucleation kinetics and global coupling in reaction–diffusion systems, D. Battogtokh, M. Hildebrand, K. Krischer and A.S. Mikhailov 288 (1997) 435

Fluids, plasma and electric discharges

Physical properties of dense, low-temperature plasmas, R. Redmer 282 (1997) 35
Systematic statistical theories of plasma turbulence and intermittency: current status and future prospects, J.A. Krommes 283 (1997) 5
Nonlinear wave–particle interaction and conditions for the applicability of quasilinear theory, V.D. Shapiro and R.Z. Sagdeev 283 (1997) 49
Fractional kinetics and accelerator modes, G.M. Zaslavsky and B.A. Niyazov 283 (1997) 73
Convective turbulence in weakly ionized plasma, R.N. Sudan, A.V. Gruzinov, W. Horton and N. Kukharkin 283 (1997) 95

Unanswered questions in ion-temperature-gradient-driven turbulence, M. Ottaviani, M.A. Beer, S.C. Cowley, W. Horton and J.A. Krommes 283 (1997) 121
Three rules of nonlinear physics, V.V. Yankov 283 (1997) 147
Turbulent equipartitions in two-dimensional drift convection, M.B. Isichenko and V.V. Yankov 283 (1997) 161
Similarities between some processes in tokamaks and plasma opening switches, L.I. Rudakov 283 (1997) 177
Explosive instabilities and detonation in magnetohydrodynamics, S.C. Cowley and M. Artun 283 (1997) 185
Dynamos and cosmic magnetic fields, R. Kulsrud, S.C. Cowley, A.V. Gruzinov and R.N. Sudan 283 (1997) 213
Current sheets in MHD turbulence, S.C. Cowley, D.W. Longcope and R.N. Sudan 283 (1997) 227
MHD turbulence in radiating intense Z-pinches, L.I. Rudakov and R.N. Sudan 283 (1997) 253
Chaos and structures in the magnetosphere, W. Horton 283 (1997) 265
A quantal transport theory for nuclear collective motion: The merits of a locally harmonic approximation, H. Hofmann 284 (1997) 137

Condensed matter: structure, thermal and mechanical properties

A quantal transport theory for nuclear collective motion: The merits of a locally harmonic approximation, H. Hofmann 284 (1997) 137
Crystals built of biological macromolecules, A.A. Chernov 288 (1997) 61
Statistical mechanics of random heteropolymers, C.D. Sfatos and E.I. Shakhnovich 288 (1997) 77
The localization of surface states: an exactly solvable model, B.A. Khoruzhenko and L.A. Pastur 288 (1997) 109
Coherent scattering enhancement in systems bounded by rough surfaces, V. Freilikher, E. Kanzieper and A.A. Maradudin 288 (1997) 127
Localization and propagation of phonons in crystals with heavy impurities, I.Ya. Polishchuck, L.A. Maksimov and A.L. Burin 288 (1997) 205
Towards understanding the local structure of liquids, A.Z. Patashinski, A.C. Mitus and M.A. Ratner 288 (1997) 409
Weak chaos in a quantum Kepler problem, B.L. Altshuler and L.S. Levitov 288 (1997) 487
Superfluid bosons and flux liquids: disorder, thermal fluctuations, and finite-size effects, U.C. Täuber and D.R. Nelson 289 (1997) 157
The thermodynamics of parallel iteration, R. Stoop 290 (1997) 111

Condensed matter: electronic structure, electrical, magnetic and optical properties

Defining the unknowns of sonoluminescence, B.P. Barber, R.A. Hiller, . Löfstedt, S.J. Putterman and K.R. Weninger 281 (1997) 65
Superconductivity and localization, M.V. Sadovskii 282 (1997) 225
New approach to periodic solutions of integrable equations and nonlinear theory of modulational instability, A.M. Kamchatnov 286 (1997) 199
Non-equilibrium effects and self-heating in single-electron Coulomb blockade devices, C. Liu and Q. Niu 286 (1997) 349

The localization of surface states: an exactly solvable model, B.A. Khoruzhenko and L.A. Pastur 288 (1997) 109
Coherent scattering enhancement in systems bounded by rough surfaces, V. Freilikher, E. Kanzieper and A.A. Maradudin 288 (1997) 127
Spectral properties and localization of an electron in a two-dimensional system with point scatterers in a magnetic field, S.A. Gredeskul, M. Zusman, Y. Avishai and M. Ya. Azbel' 288 (1997) 223
Long-time trapping of an electron in a one-dimensional disordered chain, B.A. Muzykantskii and D.E. Khmelnitskii 288 (1997) 259
The electrodynamics of polycrystals, A.M. Dykhne and I.M. Kaganova 288 (1997) 263
The theory and history of the anomalous skin effect in normal metals, M.I. Kaganov, G.Ya. Lyubarskiy and A.G. Mitina 288 (1997) 291
Kinetic phenomena in layered conductors placed in a magnetic field, V.G. Peschansky 288 (1997) 305
Physical effects in layered superconductors, V.L. Pokrovsky 288 (1997) 325
Exotic normal and superconducting properties of the high-T_c oxides, V.Z. Kresin, S.A. Wolf and Yu.N. Ovchinnikov 288 (1997) 347
Electronic structure of underdoped cuprates, A.V. Chubukov and D.K. Morr 288 (1997) 355
Weak chaos in a quantum Kepler problem, B.L. Altshuler and L.S. Levitov 288 (1997) 487
Superfluid bosons and flux liquids: disorder, thermal fluctuations, and finite-size effects, U.C. Täuber and D.R. Nelson 289 (1997) 157

Cross-disciplinary physics and related areas of science and technology

Chemical physics of solid-state nucleic acids: new intriguing horizons, E.B. Starikov 284 (1997) 1
Photophysics of photosynthesis. Structure and spectroscopy of reaction centers of purple bacteria, A.J. Hoff and J. Deisenhofer 287 (1997) 1
Biophysics of the DNA molecule, M.D. Frank-Kamenetskii 288 (1997) 13
Crystals built of biological macromolecules, A.A. Chernov 288 (1997) 61
Statistical mechanics of random heteropolymers, C.D. Sfatos and E.I. Shakhnovich 288 (1997) 77
Kinetics of first-order phase transitions in a solid solution, V.V. Slezov 288 (1997) 389
Nucleation kinetics and global coupling in reaction–diffusion systems, D. Battogtokh, M. Hildebrand, K. Krischer and A.S. Mikhailov 288 (1997) 435
Weak chaos in a quantum Kepler problem, B.L. Altshuler and L.S. Levitov 288 (1997) 487
Phenomenological theory of mortality, M.Ya. Azbel' 288 (1997) 545
Current reversal in a white noise driven flashing ratchet, P. Reimann 290 (1997) 149
Mixing in reaction dynamics under enhanced diffusion conditions, G. Zumofen, J. Klafter and M.F. Shlesinger 290 (1997) 157
The mechanical and chemical equations of motion of muscle contraction, J.S. Shiner and S. Sieniutycz 290 (1997) 183

Geophysics, astronomy and astrophysics

Solar neutrinos: beyond standard solar models, V. Castellani, S. Degl'Innocenti, G. Fiorentini, M. Lissia and B. Ricci 281 (1997) 309

Search for new massive particles in cosmic rays, H. Chen, C. Dai, L. Ding, Y. Guo, A. Huo, C. Jing, H. Kuang, H. Liu, J. Ma, C. Shen, H. Sheng, Z. Yao, Z. Yu, Q. Zhu, C. Ching, T. Ho and C. Gao 282 (1997) 1
Current sheets in MHD turbulence, S.C. Cowley, D.W. Longcope and R.N. Sudan 283 (1997) 227
Chaos and structures in the magnetosphere, W. Horton 283 (1997) 265
Kaluza–Klein gravity, J.M. Overduin and P.S. Wesson 283 (1997) 303
Local anisotropy in self-gravitating systems, L. Herrera and N.O. Santos 286 (1997) 53
Singularity, initial conditions, quantum tunneling and scalar field in modern cosmology, I.M. Khalatnikov and A.Yu. Kamenshchik 288 (1997) 513